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A B S T R A C T

A water-absorbent structure comprises an assembly of thermoplastic synthetic fibers, cellulose-based fibers, super-absorbent polymer and water-pervious sheets wrapping these components together. The assembly is a honeycomb construction having a plurality of through-holes and normally in a compressed state. Upon water permeation into the water-absorbent structure, the super-absorbent polymer is swollen and softened and the assembly is swollen so that the through-holes restore the initial state before the assembly has been compressed.